Televes

Receptor Digital Terrestre

Instrucciones de uso

Digital Terrestrial Receiver

User Manual

DVB T

Ref. 711701

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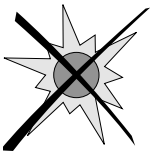
1.- Precautions



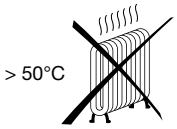
The adaptor you have just purchased has been manufactured to international safety standards.
We recommend you to read the following safety tips carefully.

ALIMENTATION:

100 - 250 V~ 50/60 Hz.

OVERLOAD:

Do not overload points, extension cords or adaptors to avoid fire and electric shock risks.

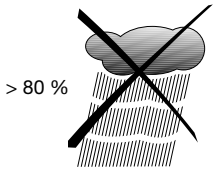


LIQUIDS:

Do not expose the Adaptor to water leakage or spray.
Do not place objects or vessels containing liquids on the equipment or near it.

SMALL OBJECTS:

Avoid the proximity of small metal objects to the equipment. These could slip through the ventilation slots of the Adaptor, causing it serious damage.

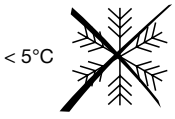


CLEANING:

Disconnect the Adaptor from the power source before cleaning.
Use a soft rag, slightly moistened in water (without detergent) to clean the outside of the Adaptor.

VENTILATION:

Place the Receiver in a well-ventilated area so that the slots are not blocked in any way. Avoid exposure to the sun, to other sources of heat or flames.
Do not place on top of other equipment.



CONNECTIONS:

Make only the recommended connections, in order to avoid possible damage to the equipment.

CONNECTIONS TO TV/VCR:

Turn off the Adaptor before connecting or disconnecting to a TV set or a VCR.
NOT DOING THIS may damage the TV or the VCR.

LOCATION:

Locate the Adaptor in an interior room, safe from electrical discharges, rain or direct sunlight.
Install the Receiver in horizontal position.

WARNING
RISK ELECTRICAL SHOCK
DO NOT OPEN

IN ORDER TO REDUCE RISK OF ELECTRICAL DISCHARGE, DO NOT REMOVE THE LID.
THERE ARE NO USER-REPAIRABLE PARTS INSIDE THE MACHINE.
FOR ANY REPAIRS, CONTACT A QUALIFIED TECHNICIAN

This symbol indicates that "voltage levels are dangerous" within the product, and that this presents a risk of electric shock or other personal harm.

This symbol indicates that there are important instructions for the use of this product

2.- General Information

The SCART DVB-T 711701 receiver enables you to tune in to a wide range of land-based channels.
This manual explains how to carry out the receiver installation and the necessary steps for using the different functions.
It also explains in detail the special functions that are available only in this receiver, and eases the use of these functions.

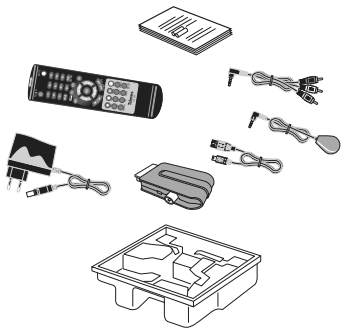
2.1.- Main features

- Allows MPG files to be recorded directly onto an external disk or pen drive (FAT 32) by USB.
- TimeShift Function
- Allows to play AVI, MPG, DviX, JPG and MP3 files.
- Advanced functions to play (Repeat, Lang, Goto).
- MPEG2, DVB Compatible
- Easy to use menu
- Guided initial installation
- Diverse program editing functions (favorites, move, block, erase...)
- Stores up to 1500 programs
- Quick and easy software updating through the use of USB.
- Download and upload of channel list via USB.
- Timer function turning the receiver on and off automatically.
- Supports LCN function (Automatic Channel Organizing)
- Electronic Programming Guide (EPG)
- Zoom Function
- Mosaic function (9 programmes))
- Supports OSD Teletext and Subtitling functions (standard and TXT)
- Supports VBI Teletext
- Parental and menu lock
- Multi-video Output - CVBS, RGB
- On-screen 256 color Display
- Automatic PAL/NTSC Conversion
- Automatically stores the last program
- Offers a range of 3 games

2.2.- Contents

Check that the following components are included in the shipment:

- 1 x Digital terrestrial receiver ref. 711701
- 1 x Remote control
- 1 x Voltage adaptor
- 1 x IR Receiver extension
- 2 x "AAA" Type Batteries
- 1 x RCA Cable
- 1 x USB Cable
- Instructions Manuals

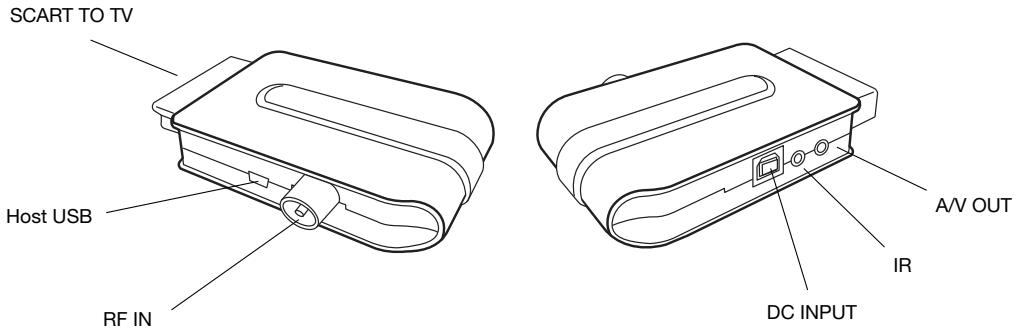


2.3.- General Operation

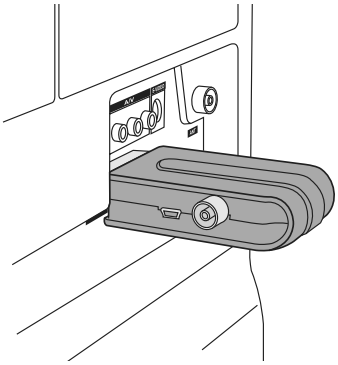
Throughout this manual you will observe that the daily use of the receiver is based on a series of very easy to use menus and displays. These menus will help you to enjoy your Televés receiver, by guiding you through the installation, program organizing, viewing and many other functions.

If you should have any problems with the functioning of your receiver simply read the corresponding paragraph of this manual, or alternatively call you installer or Televés's Technical Assistance Service.

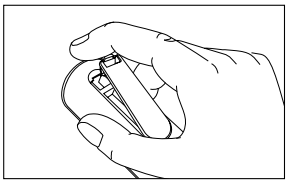
3.- Description of connections

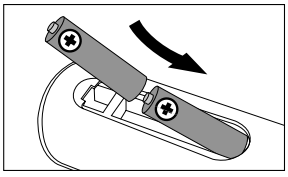


Name	Function
SCART TO TV	Connection to the Euroconnector of the TV or VCR
Host USB	Connection of the USB cable to connect a memory stick, an MP3 player or an external disk
RF IN	Signal input from the terrestrial aerial
DC INPUT	Connection for the power adaptor
IR	Connection for the IR sensor. The sensor should be located in a visible spot
A/V OUT	Audio/Video signal output to connect to other devices



3.1.- Remote control





Button	Function
⏻	Turns receiver on and off.
MUTE	Suppresses sound.
0 ... 9	Selects a program number for viewing. Direct input of data on menu.
MOVIE	Accesses the Films menu.
FAV	Shows the favorite programs list.
REPEAT	Repeats one or several audio or video files.
MENU	To enable the main menu or to leave the menus.
EPG	Enables the EPG (Electronic Program Guide) of the current transponder.
LANG	Allows to select the audio of a film (AVI).
INFO	Shows current program information. If pressed again before the disappearance of the banner, will show details of the current program. Gives extra information on some menus.
EXIT	Returns to the previous menu on the menu screen.
▲ CH+	Selects following program / Upward movement.
▼ CH–	Selects the previous program / Downward movement.
◄ VOL–	Reduces volume level. Moves left.
► VOL+	Increases volume level. Moves right.
OK	Executes the menu option chosen, or enters the desired value in any input mode. Enables the general program list.
⏮	Selects the previous track.
⏭	Selects the next track.
⏩	Fast forwards the image in reproduction mode (X2, X4, X8, X20).
⏪	Fast rewind the image in reproduction mode (X2, X4, X8, X20).
ALT	Commutes to the last program tuned.
LIST	Enables the general program list.
REC ●	Records the program currently being watched.
TEXT ■	In TDT mode, activate the Teletext. In Multimedia mode, stops playing a file.
TV/RADIO ►	In TDT mode, switches between TV and Radio modes. In Multimedia mode, starts playing a file.
PAUSE ⏸	Enables you to freeze the image viewed. To go on watching, press again.
AUDIO	Selects the different audio languages available. Selects the audio output type (L. R. Stereo).
SUBT	In TDT mode enables the Subtitles Menu. In Multimedia mode show the subtitles during the playing of MPEG2, DivX or Xvid files.
ZOOM	Enables the Zoom function.
DEVICE	Selects the signal source.
TIMESHIFT	Access to Timeshift function.
FILE	Shows the list of recorded files.
MOSAIC	Shows a mosaic of 9 small screens.
A-SCAN /GO TO	In TDT mode, initiates automatic program search. In Multimedia mode, shows a time meter to have direct access to scenes.

Note: The red, green, yellow and blue buttons have secondary functions that are not described here and which may appear on the different menus.

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4.- Equipment installation

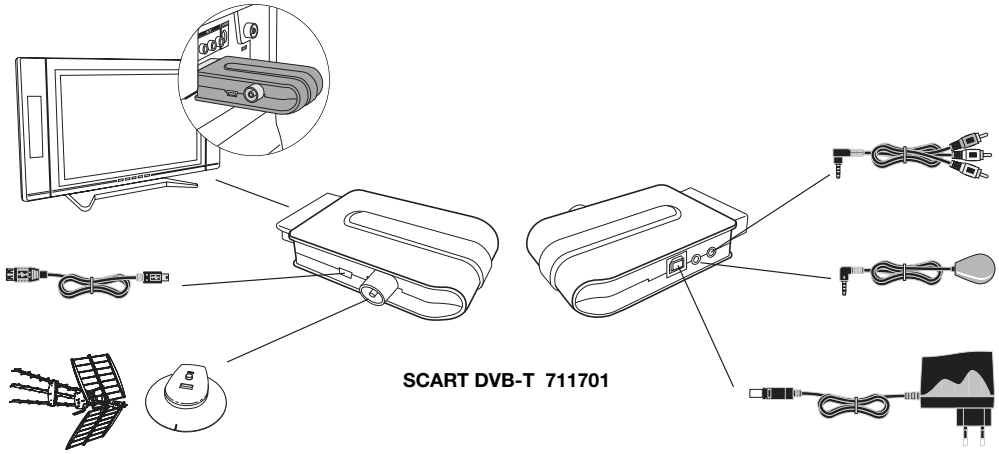
This section explains how to install the SCART DVB-T 711701 Receiver.

Read the manuals supplied with the equipment for the installation of external devices such as the aerial.

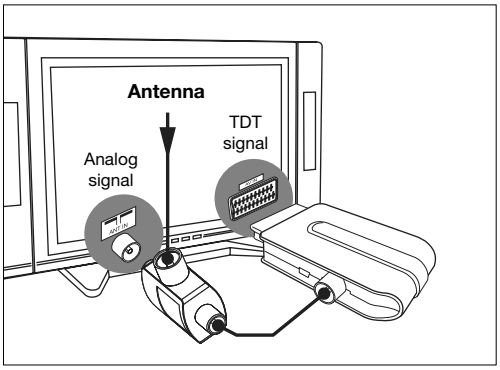
When adding a new device, read the respective part of the manual for installation instructions

4.1.- Connections

- Connect the receiver directly to the TV Euroconnector or do so with cable A/V (RCA).
- Connect the aerial to the **RF IN** port of the receiver.
- Connect the IR sensor extension cord to the **IR** connector. Place the sensor in full view enabling the use of the remote control.
- Connect the feed adaptor plug to the **DC INPUT** socket of the receiver.
- Plug the network adaptor into a wall socket (100 - 250V~).
- The receiver will start functioning normally showing the channels tuned.



Analog TV + Digital TV Option



Important note:

If you want to connect an external disk (FAT 32) to the receiver, you must do so before connecting the receiver to the mains (230V~).

All cables used for Receiver connection should be of the screened type.

DO NOT PLUG the Receiver into the network before finalizing all connections

5.- Start of installation

When the receiver is first turned on, it will show an initial installation window.

This menu consists of four options: OSD Language, Area, LCN and Enabled Aerial.

To set up these parameters, follow the instructions below:

- Using buttons ◄ / ► locate the cursor on the language window.
  Using buttons **▲CH+ / ▼CH-** select the desired menu language.
  The available menus are: English, French, German, Italian, Spanish, Swedish, Portuguese, Finnish, Dutch, Turkish, Czech, Greek and Danish.
  Press button **OK** to confirm.

- Shift the cursor to the next optionn ***Area*** using the button **▼CH-**.
  Using buttons ◄ / ► locate the cursor on the country window.
  Using buttons **▲CH+ / ▼CH-** select the zone for local configuration of parameters.
  The areas or zones available are: Germany, England, Italy, France, Spain, Holland, Taiwan, China, Norway, Sweden, Finland, Greece and Australia.
  Press button **OK** to confirm.

- Shift the cursor to the next option ***LCN*** using button **▼CH-**.
  Using buttons ◄ / ► locate the cursor on the options window.
  Using buttons **▲CH+ / ▼CH-** select the enabling (on) or disabling (off) of the LCN option (Automatic channel organizing).
  Press button **OK** to confirm.

- Move the cursor to the next option ***Active Antenna*** using button **▼CH-**.
  Using buttons ◄ / ► locate the cursor on the options window.
  Using buttons **▲CH+ / ▼CH-** indicate if you wish to feed (on) or not (off) a potential amplifier into the aerial.
  *If no amplifier is available, you should select the **Off** option, otherwise you might damage the receiver.*
  Press button **OK** to confirm.

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- Finally an emerging window will appear requesting confirmation to start the search.

  Select the option ***YES*** and press **OK** button to start the search.

  The receiver will carry out a search over the whole input frequency band.

  Once this search has ended, the receiver will show the first program on the list.

6.- Basic Functions

Below we describe the basic functions of the SCART DVB-T 711701 receiver that may be used while you are watching TV programs or listening to land-based radio programs.

6.1.- Selecting a program

To select a program, use the buttons **▲CH+ / ▼CH-** on the remote control or the **number keys**.

As well as this normal function, the receiver offers a quick program change function.

While you are watching TV, press button **OK** on the remote control. A program list will appear on screen.

To select a channel, move through this menu using the **▲CH+ / ▼CH-** buttons and select the desired program. Press button **OK** to watch your chosen program.

If you have also included programs in predefined groups, you can select them by topic (none, news, science, sports, movies, kids, music, fashion). To change the group, press the buttons **◄ / ►** .

6.2.- TV/Radio Mode

While you are watching a TV program, press button **TV/RADIO** on the remote Control to switch between TV and Radio mode.

You will then switch to one of the Radio stations in the memory.

6.3.- Volume Control

■ **Volume Control**

- To raise or lower Volume use remote control buttons **◄VOL- / ►VOL+** .

Note: *The receiver has 10 Volume levels. Volume may also be adjusted using the volume control on your TV set.*

■ **Mute**

- To suppress sound entirely, press the **MUTE** (🔇) button on the remote. To re-enable sound, press this button once again.

6.4.- Channel information

Each time you change programs, some information on the new program will appear for a few seconds.

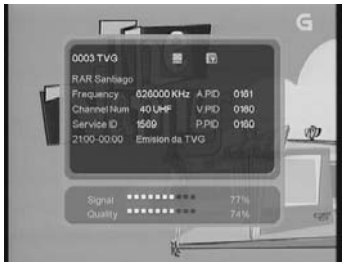
This same information will appear if you press the **INFO** button at any point. If you press it again, while the information window is being displayed, transponder information will appear (name, frequency, bandwidth, etc) as also, if available, information on the next program to be shown.

The indication **"SUB"** on this window shows that the program is subtitled.

The indication **"TXT"** on this window indicates that the program has a teletext option.

The indication **"A"** on this window indicates that the program offers audio in several languages.

You will also see two bars indicating the quality and intensity level of the signal received.



6.5.- Favorites List

To access the favorite program list, press button **FAV** on the remote. The selected favorite program list will then be displayed.

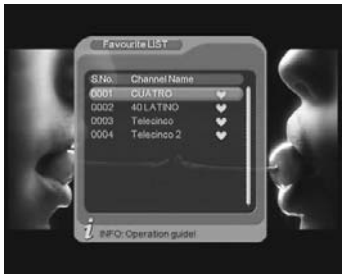
By pressing the **TV/RADIO** button you can select the TV or Radio favorites list.

To select a program, browse the list using the **▲CH+ / ▼CH-** buttons and confirm by pressing **OK**.

***Note**: - If there is not any programme assigned to the favourites list, the message "Favourite channels not available" will appear.*

- To leave the favorites list, select a program on the general list.

The method used to create/modify the favorite programs list is explained in paragraph *12.1.1.- "Program Organizer"*.



6.6.- Audio Menu

■ **Mode selection**

- Press the **AUDIO** button on the remote control to enable the emerging "Multi-audio" menu.
- Using the buttons ◄ / ► you may select the audio configuration mode (Left, Right or Stereo).
- Press button **OK** to confirm your selection, or else press button **EXIT** leaving the menu unchanged.

■ **Language selection**

Some channels are broadcast with several audio options. This function depends on whether the broadcast includes this information in the signal sent by the operator.

- Press **AUDIO** on the remote control enabling an emerging "Multi-audio" menu.
- You may select the audio language from among those available, with buttons **▲CH+ / ▼CH-** (however, if the broadcast is in only one language, no change is possible).
- Press button **OK** to confirm your selection, or else press button **EXIT** leaving the menu unchanged.

6.7.- Zoom Function

This function enables you to zoom in or out on the full-screen picture you are viewing at the moment .

- Each time you press **ZOOM** button, the zoom factor changes in this sequence: zoom x2, zoom x3, zoom x4, zoom out 1/2, zoom out 1/3, zoom out 1/4 and zoom off.

  The "zoom x" sequence will gradually blow up the image, while "zoom out" will progressively shrink it.
- To browse through hidden parts of the blown up image use the buttons ▲ **CH+ / ▼CH-** and ◄ / ►.
- To exit the Zoom option, press button **ZOOM** repeatedly up to "Zoom off".

NOTE: *Bear in mind that as you go increasing the zoom factor, the image quality will progressively deteriorate.*

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6.8.- Mosaic function

This function allows to visualize an image mosaic (group of channels) formed by 9 screens.

- Press the **MOSAIC** key to activate this option.
- Once the mosaic appears on the screen, you can choose the programme you wish using the **▲CH+ / ▼CH-** and **◄ / ►** keys and then press **OK**.

- Press the **EXIT** key to return to normal visualization mode.

NOTE: *This function does not allow to visualize two programmes at the same time.*

6.9.- Return to previous program

Press button **ALT** on the remote control to return to the last program you were viewing

7.- EPG (Electronic Programming Guide)

The SCART DVB-T 711701 receiver provides the EPG function for the user to have access to the TV (or radio) guide that shows information on the current or next programs on different channels, such as name, starting and ending times, plus a brief description, ...

- To view EPG information, press **EPG** on the remote control while viewing a program.
- The EPG window corresponding to this program will appear on screen.
- EPG display can be shown in Daily or Weekly mode.

■ Daily Mode

- This is the default mode.
- In it, the EPG will appear divided into five groups. In the two upper ones are shown the date, time and day of the week. The center one shows on the left side the list of available channels and on the right side the starting and ending times and the names of all of the different programs being broadcast throughout the day corresponding to the channel that has been selected.
- Press buttons **▲CH+ / ▼CH-** to browse up/down both through the channel list (left) and through the different programs of that day (right). To move from the channels list to the programs list, you will have to use the following two buttons **◄ / ►**.
- If you click the **yellow** button on one of the programs on the list, the receiver will show more detailed information on that program. If the information takes up more than one page on the screen, use the buttons **▲CH+ / ▼CH-** to browse downwards. To leave this menu, press **EXIT**.
- By clicking the **blue** button on one of the programs on the list, a new timer will be automatically created for that program. The ***Wakeup Timer*** menu will be shown on screen with the data corresponding to the program. Press button **OK** to memorize the timer and return to the EPG.

  To obtain further information on how to program an event, see paragraph *12.3.5.- Alarm clock*.
- Finally, at the bottom of the screen an information line will be shown for each event.

■ Weekly Mode

- Once the EPG is enabled, by pressing the **green** button, you fo to the Weekly mode.
- In this case, the EPG appears distributed into six groups. The difference with the Daily mode is that instead of the day of the week, the whole week is shown and each day is divided into hourly bands. The operation mode is the same as previously.
- To return to Daily mode, press the **red** button.

To finally leave EPG press button **EXIT**.

NOTES: *The information appearing on the EPG is provided by the service supplier, so on certain occasions it may not be available.*

*If the program selected does not supply data for the EPG, the legend '*No information available*' will appear.*

*To programme a recording of a specific event, press the **TEXT** (blue) key on the event. This will directly access the alarm menu, where you must then select the "Recorder" option in the "Wakeup mode" section, and then confirm by pressing **OK**.*

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8.- Teletext / Subtitles

This receiver will enable you to choose among all the Teletext and/or subtitling options provided by the service supplier.

■ **Teletext**

- Press button **TEXT** on the remote control to enable Teletext and press **OK**.
- The teletext services will be displayed in the usual way.
- Even if your TV set does not possess a Teletext decoder, you may view it on screen, since the receiver generates it automatically.
- The receiver control has colored keys enabling rapid access to Teletext pages.
- To leave Teletext press button **EXIT**.

■ **Subtitles**

- Press button **SUBT** on the control to enable subtitles.
- Select the options "Subtitle" or "TXT-Subtitle", using the buttons ◄ / ► to show the subtitle text. If you wish to eliminate subtitling, select the "Off" option.
- Using the buttons **▲CH+ / ▼CH-** you can select the language in which the teletext is displayed (the option is available if the service supplier provides this information).
- The subtitling services will be visible on the lower part of the screen.

***NOTE**: Not all service suppliers provide this kind of information.*

9.- Recording programmes

This receiver allows programmes to be recorded in two different ways: in real time, or by using the "*Wakeup Timer*" option.

To use this function, you must have an external disk or pen drive in FAT 32 format, which must be connected before plugging the receiver into the mains.

- Before starting the recording, press the **DEVICE** key to show the list of devices. Select the device using the **▲CH+ / ▼CH-** keys, and then press **OK** on the device. A confirmation message will be shown.
- The device will indicate you, using color signals, which functions you can do in the selected disk. If the "Speed" signal is red you can only **read** files. If it is yellow, you can **record** and if the signal is green, you can run the **TimeShift** function.
- Press the **EXIT** key to exit the device list.

■ Real time recording

- Press the **REC** ● key once to record the programme you are currently watching. The indication "●" will the shown on the screen, and you will not be able to access any other programme. If you press this key twice, you will be able to define how long the recording lasts (15, 30, 45, 60, 75, 90, 105 or 120 minutes), and then confirm using the **OK** key.
- If the signal level drops or disappears during the recording, the message "REC PAUSE" will be shown on the screen, and the recording will halt. Recording will begin again once the signal returns.
- To stop recording, press the **TEXT** ■ key. A message will be shown asking you if you want to stop the recording, by selecting YES or NO.

■ Recording with Wakeup/EPG

- There are two ways of programming a recording, either through the information of the EPG or directly using the Wakeup option.
- For information on how to create events indicating the start time and end time for recordings, programme, etc., see section *12.3.5.- Wakeup Timer Configuration.*

***NOTES**: The recordings will be stored in files with a maximum size of 3.8 GB (due to the 4GB limit of the FAT 32 format).*

Subtitles will not be available while recording a programme.

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10.- TimeShift function

To make this function possible, you must have an external disk or a pen drive (memory stick) with FAT 32 format, which must be connected before supplying the receiver.

Timeshift is the time that passes between the video in real time and the video recorded in the hard disk.

- Press the **TIMESHIFT** key while you are watching a TV programme. The "TIMESHIFT" indication will appear on the screen. From that moment on, all the information will be being stored in the receiver´s memory.
- Press the **II** key if you want to stop the image and the ▶ key to continue watching the programme starting at same point where you had stopped. Use the ◀◀ / ▶▶ keys if you want to adjust the time bar to search certain scenes.
- Press the **TEXT** ■ key to stop the TimeShift function and return to play in real time.
- Before finishing this function, a window will appear asking you if you wish to save in the disk the recordings from the TimeShift function.

NOTES:*- The maximum time assigned to this function will depend on the size of the external disk connected to the unit.*

- During the TimeShift function subtitles and teletext will not be available.

- During the TimeShift function you cannot change programmes. You must stop this function before changing them.

11.- Main Menu

- Press button **MENU** to enable the main menu.
  This menu consists of seven sub-menus as shown below.

  - Digital TV
  - Movie
  - Music
  - Photo
  - Games
  - Disk Manager
  - Partition-format

- Select one of the menu options, using the buttons **▲CH+ / ▼CH-** and press **OK** to accept.

- You can also select the sub-menu lines by using the numeral keyboard: (1 ... 9). All you have to do is type in the desired line number directly.

- On the menus that show the indication "***i INFO: ¡Operating guide!***", by pressing the **INFO** button, an emerging menu will appear, showing the functions and the keys that may be used on that menu.

- Press button **EXIT** to leave the previous menu and to finally exit from the menus.

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12.- Digital TV

12.1.- Program Editing

12.1.1.- Program Organizing

Note: *As the radio programs are organized in the same way as the TV programs, we will only describe the process required for organizing the TV programs.*

To access the General Programs List, press the **MENU**. button. Select the options "Digital TV", "Channel Manager", and finally "Channel Organizer".

On this General List, all the programs found during the search will appear. You can browse through the programs list by using the buttons **▲CH+ / ▼CH-**.

The following options are used for editing the programs:

■ **Favorites**

This is the function used to select programs which will form part of the Favorites List.

Select a program from the list, using the buttons **▲CH+ / ▼CH-** and then press the **red** button. The programs which are marked for inclusion in the favorites list will be marked with icon "♥". To eliminate this mark click the **red** button on the program again.

■ **Move**

Programs on the list may be repositioned as desired.

You can select a program by using the buttons **▲CH+ / ▼CH-**, then you can press the **yellow** button, and using buttons **▲CH+ / ▼CH-** locate it in its new position on the list and press **OK**.

Note: When the LNC is activated, the receiver allows you to change the programme´s location but keeping its numbering.

■ **Lock**

This blocks a selected program which may only be seen through the use of an access code. The programs that were blocked are shown on the list with icon "🔒".

Select the program using the buttons **▲CH+ / ▼CH-** and press the **blue** button to block it. You will then be asked to give a password. To eliminate the block mark click on the program again with the **blue** button.

■ **Delete**

Select a program from the list by using the buttons **▲CH+ / ▼CH-**. If you wish to totally delete the program selected, press the **green** button. The programs that are marked for deletion will be shown with the icon "✕". To eliminate the deletion mark, click on the program again with the **green** button.

■ **Rename**

Select a program from the list by using the buttons **▲CH+ / ▼CH-**. Press button **◄ / ►** to enable an emerging keyboard. Create the new name and press **OK**.

To save the changes and exit from the editing option, press the **EXIT** button.

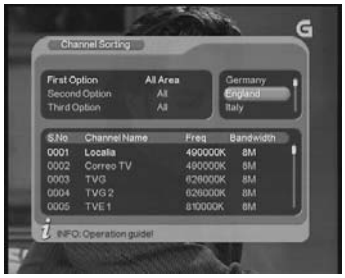
12.1.2.- Channel Sorting

There are three ways to organize a program list.

The whole area (by region); All Area, Free (FTA), Scramble; by alphabetical order (A-Z or Z-A), LCN+ and LCN-.

- Using the buttons **▲CH+ / ▼CH-** select the program organizing method you choose from those available and using buttons **◄ / ►** select the parameter for each option.
- Press button **OK** to confirm your organization choice.

***Note**: To organise programmes by LCN+/-, this option must be activated.*



12.1.3.- Channel Grouping

This option enables you to group the programs by content topic. The available topics are: None, News, Science, Sports, Movie, Kids, Music and Fashion.

You will view the channels grouped by topic on pressing the **LIST** button.

- Using the buttons **▲CH+ / ▼CH-** select the channel you want to include in a group, then press one of the number keys on the remote from **1** to **8** coinciding with the name of the desired group. The icon of this group will appear beside the program name.
- Press button **EXIT** to leave the menu and confirm the grouping action.

***NOTE**: A program that is grouped on one of these lists will no longer be available on the general list.*

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12.1.4.- Edit Channels

Using this menu you can add new programmes to the list, or modify features of the existing programmes.

- Press the **red** button to enter the sub-menu "Add programs".
- Using the buttons **▲CH+ / ▼CH-** you can browse through the parameters defining the new program.
- Press buttons **◄ / ►** to switch to the option ranges for each parameter and using the buttons **▲CH+ / ▼CH-** select the one you wish. Press **OK** to confirm.
- Click button **◄ / ►** on the parameter "ChannelName". It will produce an emerging menu where you can create a name for the program.

- Click the **yellow** button on a program from the list to edit the parameters by: Name, PID Audio, PID Video and PID PCR. Press **OK** to confirm the changes.

- Press button **EXIT** to leave the menu.

12.1.5.- Delete All

Using this menu, you can erase the TV or Radio programs.

- Click the **OK** button on the option "Delete all". You will be asked to insert the access PIN code. By default: **0 0 0 0**.
- Using the buttons **▲CH+ / ▼CH-** select between erasing All TV Programs and All Radio channels.
- An emerging window will ask you to confirm your decision to erase all programs. Select YES and press **OK** to confirm.

- Press button **EXIT** to leave the menu.

12.2.- Installation

There are different ways of carrying out the channel search.

12.2.1.- Only FTA/All

- Select the type of search among *All* (all of the programs found) or *Only Free* (only those being broadcast openly).
- To do so, once you have selected the option "*FTA/All*" press button **OK** to accept. You will then access a sub-menu where you can use the buttons ◄/► to choose whether to carry out the FTA Channel search.
- Press button **OK** to confirm.

12.2.2.- Automatic search

- Select this mode to carry out an automatic search over the whole receiver input band.
- To do so, once you have selected the option "*Automatic Search*" press the button **OK** to start the search. This will be done over the whole input bandwidth of your receiver.
- The complete search may take several minutes.
- If you wish to interrupt the search, press **EXIT**.

12.2.3.- Manual Search

- Select this mode when you want to search for an individual channel.
- For the purpose, once you have selected the option "*Manual Search*" press button **OK** to accept. You will thus access a sub-menu where you must indicate if the search will be by *Number* or by *Frequency* using the buttons ◄/► .

Number

- Using the buttons ◄/► select an available channel using the option "Channel Name". Note whether the channel you have selected is a digital one. You will know this easily if the lower "Quality" bar is showing an acceptable quality percentage level.

By Frequency

- Using the **numerical keyboard** enter the frequency to be scanned for in the option "Freq.(KHz)".
- Select the appropriate "Bandwidth" from among 6, 7 or 8 MHz using buttons ◄/►.

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- Bear in mind that if these values are not the correct ones, the search will fail.

- Finally, press button **OK** to start the search.

You can follow the search process using the indications shown on the TV screen.

12.2.4.- Range Search

- Select this mode to carry out a selective search between two frequencies.
- To do so, once you have selected the option "*Range Search*" press button **OK** to accept. You will thus access a sub-menu where you should indicate both the starting and ending frequencies.
- Select the appropriate Bandwidth among 6, 7 or 8 MHz using buttons ◄/►.

- Finally, press button **OK** to start the search.

12.2.5.- LCN Setting

- This option allows the user to enable or disable the channel organization mode that has been defined by the operator.
- To do so, once you have selected the option "*LCN Setting*" press button **OK** to accept. You will access a sub-menu where you can enable (on) or disable (off) the automatic organizing mode with buttons ◄/►.

- Finally, press button **OK** to confirm.

12.2.6.- Antenna Setting

- This option allows the user to enable or disable the feed on a potential aerial amplifier.
- To do so, once you have chosen the option "*Antenna Setting*" press button **OK** to accept. You will thus access a sub-menu in which you should enable (on) or disable (off) the amplifier feed using buttons ◄/►.

Note: *If there is no amplifier, you must select the option NO, otherwise you can damage the adaptor.*

- Finally, press button **OK** to confirm.

12.3.- Configuration

12.3.1.- OSD (On-Scree Display) Configuration

This is the menu used for personalizing menu configuration.

■ **OSD**

This option enables you to change the color of the menu choosing from 5 options.

To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on the "OSD" parameter and with **◄ / ►** select the desired option.

■ **Time on OSD**

With this option you can show the time on screen.

To do so use buttons **▲CH+ / ▼CH-** locating the cursor on parameter "Time on OSD", using the **◄ / ►** active (on) buttons.

■ **OSD Timeout**

This option modifies the time during which the information screen is displayed.

To use it, with buttons **▲CH+ / ▼CH-** locate the cursor on parameter "OSD Tmiout" and using the **◄ / ►** select a time between 1 and 6 seconds.

■ **Transparency of OSD**

This option modifies the transparency with which the menus are shown on screen.

To use it, with buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Transp. of OSD" and with buttons **◄ / ►** select a percentage of transparency between 0 and 60%.

■ **OSD Language**

This option enables you to change the language in which the menus are shown on screen.

To use it, with buttons **▲CH+ / ▼CH-** locate the cursor on parameter "OSD Language". Using buttons **◄ / ►** switch to the list of available languages and then using buttons **▲CH+ / ▼CH-** select the desired language. Press **OK** to accept.

■ **MP4 Subtitle Language**

This option allows you to modify the language of the subtitles shown on the screen, if they are transmitted with the signal.

■ **1. Audio Language**

This option enables you to switch between different audio languages, if they are being broadcast with the signal.

To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "1. Audio Language". Using buttons **◄ / ►** switch to the available language list and then using buttons **▲CH+ / ▼CH-** select the desired language. Press **OK** to accept.

■ **2. Audio Language**

If the *Audio* selected as "1. Audio Language" is unavailable, the option "2. Audio Language" will be automatically selected".

Finally press button **OK** to confirm the new parameters.

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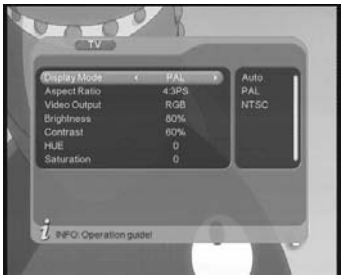
12.3.2.- TV Configuration

Using this menu, you can configure the parameters of your screen.

■ Display Mode

Using buttons **▲CH+ / ▼CH-** locate the cursor on the parameter "Display Mode" and with buttons **◄ / ►** select the appropriate video standard.

The options are: Automatic, PAL or NTSC. Automatic is the default configuration.



■ Aspect Ratio

Using buttons **▲CH+ / ▼CH-** locate the cursor on the parameter "Aspect rartio" and with **◄ / ►** select the desired format among 4:3LB, 4:3PS,16:9 or Auto. This option enables the automatic configuration of your screen depending on the model of your TV set.

■ Video Output

This option enables you to choose the type of output signal through the Euroconnector.

To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on the "Video Output" parameter, and with buttons **◄ / ►** select between **RGB** and **CVBS**. **RGB** is the default configuration.

■ Brightness

This option enables you to change picture brightness.

To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Brightness". With **◄ / ►** change to the list of values and with buttons **▲CH+ / ▼CH-** select a percentage between 0 and 100%. Press **OK** to accept.

■ Contrast

This option enables you to change picture contrast.

To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Contrast". Using buttons **◄ / ►** switch to the values list and using buttons **▲CH+ / ▼CH-** select the percentage of contrast between 0 and 100%. Press **OK** to accept.

■ HUE

This option enables you to change picture color.

To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Color". Using buttons **◄ / ►** switch to the values list and using buttons **▲CH+ / ▼CH-** select the contrast level between -6 and +6. Press **OK** to accept.

■ Saturation

This option enables you to change saturation (tone) of the picture.

To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Saturation". Using buttons **◄ / ►** switch to the values list and using buttons **▲CH+ / ▼CH-** select the saturation level between 0 and 12. Press **OK** to accept.

Finally press button **OK** to confirm the changed parameters.

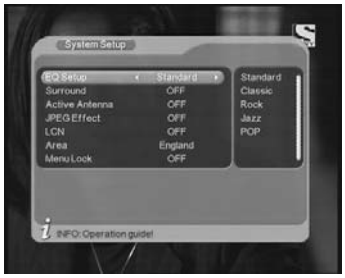
12.3.3.- System Configuration

Using this menu, you can configure the system parameters.

■ **Equalizer**

Using buttons **▲CH+ / ▼CH-** locate the cursor on the "Equalizer" parameter, and using buttons **◄ / ►** select the kind of equalizer you desire.

The options are: Standard, Classical, Rock, Jazz or Pop.



■ **Surround**

Using buttons **▲CH+ / ▼CH-** locate the cursor on the "Surround" parameter, using buttons **◄ / ►** to select the desired effect.

The options are: Off, Concert, Church, Passive and Direct.

■ **Active Antenna**

If you are using an active aerial (with amplifier) you should enable this option to feed the respective amplifier with +5V/100mA. The feeding is done through the selfsame coaxial cable that is connected to the RF IN port of the receiver.

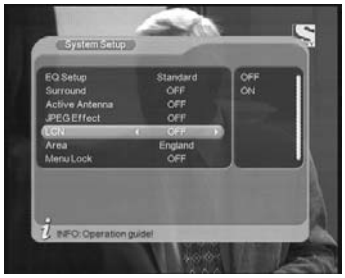
To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Active antenna" and with buttons **◄ / ►** enable (on) the feed process.

If no amplifier is available, you should select the option "Off", otherwise the receiver may be damaged.

■ **JPEG Effect**

This option enables you to give the picture a similar effect to that of JPEG.

To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "JPEG Effect", and with buttons **◄ / ►** enable (on) the effect.



■ **LCN**

This option allows you to enable or disable the LCN Function (Automatic Channel Organizing).

To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "LCN" and with buttons **◄ / ►** enable (on) or disable (off) this option.

Note: *The enabling of this option affects the way in which the receiver automatically organizes channels when it is carrying out a channel search.*

■ **Area**

This option enables the selection of the area or zone where the receiver will be located.

To do this, using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Area". With buttons **◄ / ►** switch to the zone list, and with buttons **▲CH+ / ▼CH-** select the desired country. Press **OK** to accept.

Note: *The selection of a given area determines default parameters.*

■ **Menu Lock**

This option allows you to lock the access to the main menu.

To do so, place the cursor on the "Lock Menu" parameter using the **▲CH+ / ▼CH-** keys and activate (on) or deactivate (off) this lock using the **◄ / ►** keys.

Note: *Once this menu is activated, you will have to enter the PIN code every time you access the main menu.*

Finally, press button **OK** to confirm the parameters you have changed.

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12.3.4.- Time Configuration

Using this menu, you can configure the way in which the receiver manages the Time information it receives with the signal.

■ Timer Mode

Using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Timer Mode" and using buttons **◄ / ►** select the time setting: Automatic or Manual.

Selecting the *Automatic* mode will enable you to change the parameters "GMT Offset" and "Summer Time".

Selecting the *Manual* mode will enable you to edit the values corresponding to "Date" and "Time".

■ Date

Using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Date". Using buttons **◄ / ►** you enable an emerging calendar where the date can be updated.

Using buttons **▲CH+ / ▼CH-** y **◄ / ►** select the day on the calendar. If you select a day which is outside the current month, it will change to the previous or next month.

Using the **red** and **yellow** buttons, select the month.

With the **blue** and **green** buttons select the year.

■ Time

Using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Time". Using buttons **◄ / ►** the digits corresponding to the hour and minute values are selected. Using the numerical keyboard enter the correct value for each digit.

■ GMT Offset

Using this option, you will be able to indicate the time shift of the equipment location relative to GMT.

To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on parameter GMT Adjustment. With buttons **◄ / ►** switch to the values list and using buttons **▲CH+ / ▼CH-** select the shift desired. Press **OK** to accept.

■ Summer Time

This option allows you to enable or disable the summer time function.

For the purpose, using the buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Summer Time" and using buttons **◄ / ►** enable (on) or disable (off) this option.

Finally, press button **OK** to confirm the change in parameters.

12.3.5.- Wakeup Timer Configuration

Using this menu you can turn the receiver On/Off at a previously programmed time.

You can program several events with different execution frequencies (once daily, weekly, etc...)..

■ **Timer N°**

Using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Timer N°". Using the buttons **◄ / ►** switch to the timer list, and using the buttons **▲CH+ / ▼CH-** select one of the 8 options available. Press **OK** to accept.

If any one of the timers is enabled, the cursor will self-locate on the next one available.

■ **Timer Mode**

Using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Timer Mode". Using the buttons **◄ / ►** select one of the options: OFF, Once, Daily, Weekly or Yearly.

■ **Wakeup Mode**

Using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Wakeup Mode". Using the buttons **◄ / ►** select one of the options: Off (disabled), Message (shows a message on screen), Program (shows the program selected), ON (turns the receiver on without a preset turnoff time) or Recorder (records the selected programme on the external disk or pen drive).

■ **Wakeup Channel**

Select the message or channel that will be shown on screen when the alarm clock is enabled. Depending on the mode set in the previous item, a message or a channel will be displayed.

To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Wakeup Channel". Then using **◄ / ►** select the desired type.

■ **Wakeup Date**

Select the date for enabling the alarm clock.

To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Wakeup Date". Using buttons **◄ / ►** a calendar is enabled on which you should indicate the day. Press **OK** to accept.

■ **On Time**

Indicate the time when the alarm should be activated.

To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "On Time" and on the numerical keyboard type in the activation time.

■ **Duration**

Indicate event duration.

To do so, using buttons **▲CH+ / ▼CH-** locate the cursor on parameter "Duration" and on the numerical keyboard type in the duration of the event.

■ **Default Partition**

Select the disk in which the programme indicated for the alarm clock mode will be recorded.

Finally press button **OK** to confirm the change of parameters.

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12.3.6.- Parental Lock

When your receiver's password is discovered, or you need to update it for any reason, this menu will allow you to change your password within the system.

This will enable you to prevent both undesired manipulation of the system and access to inappropriate channels.

■ **Changing your PIN Code:**

- The plant default PIN Code is **0 0 0 0**.

Note: Do not forget your PIN Code.

- To change the PIN code, first enter the current code.
- Then enter the new PIN code.
- Finally re-enter the new PIN code to confirm the operation.

Notes:

- *The password is entered using the numerical keyboard (0 ... 9) on the remote control.*
- *Parental control affects the system configuration menus and the programs that are blocked.*
- *Do not forget your new password. Without it you will not be able to access the blocked menus and/or programs.*
- *If you forget your password, get in touch with our technical service.*

12.4.- Software Updating

■ Download from USB

If you have an updated version of the software and wish to update the Receiver, proceed as follows.

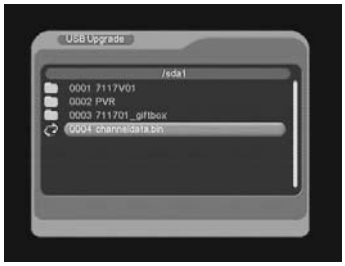
- Copy the software onto a memory stick (pen drive).
- Connect the memory stick to the Receiver using the USB cable supplied.
- Select the option "Software Updating" on the *Digital TV* menu using buttons **▲CH+ / ▼CH-** and press **OK**.
- Click **OK** on the option "USB Transfer".
- Select the software file (.bin) using the buttons **▲CH+ / ▼CH-** and press **OK**.
- The update process may take a few minutes. Please wait.

Once the software is updated, the receiver will go to the "Installation Startup" menu.

■ Download Channel Data

If you have a customized channel list and you want to update the receiver with it, follow these steps.

- Copy the file onto a pen drive.
- Connect the pen drive to the receiver using the USB cable provided..
- Select the "Software upgrade" option in the *Digital TV* menu using the **▲CH+ / ▼CH-** keys and press **OK**.
- Press **OK** on the "Download Channel Data" option.
- Select the *channeldata.bin* file using the **▲CH+ / ▼CH-** keys and press **OK**.



■ Upload Channel Data

If you have a customized channel list in the receiver and you want to save it, follow these steps.

- Connect a pen drive to the receiver using the USB cable provided.
- Select the "Software upgrade" option in the *Digital TV* menu using the **▲CH+ / ▼CH-** keys and press **OK**.
- Press **OK** on the "Upload Channel Data" option.
- The channel list will be saved as channeldata.bin in the pen drive.

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12.5.- Factory Default

If you wish to return to plant configuration values, you may do so at any time.

This function will allow you to return to the receiver's parameters at the time when it left the plant, deleting any subsequent configuration it might have been given.

- Select the parameter "Factory Default" using the buttons **▲CH+ / ▼CH-** and press **OK**.
- Enter your PIN Code.
- On the emerging confirmation window, you should indicate whether you wish to restore the plant values (Yes) or leave the current ones in place (No). Select the desired options using buttons **◄ / ►** and press **OK**.

Note: *When you perform this operation you will be shown the message "Data base empty" until a channel search is carried out.*

12.6.- Information Technology Version

This function enables you to see the software and hardware versions in the receiver.

- Select the parameter "Version" by using the buttons **▲CH+ / ▼CH-** and press **OK**.
- You will be shown a screen with the current versions.

- Press the **EXIT** button to leave this menu and return to the previous one.

13.- Movie

This menu allows you to view a video file in MPG, AVI and DivX format from a USB memory stick or an SD/MMC card reader.

- Select the parameter "Movie" using the buttons **▲CH+ / ▼CH-** and press **OK** to confirm. This menu can also be accessed directly by pressing the **MOVIE** key in normal viewing mode.
- Select the corresponding video file directory, once again doing this by using the buttons **▲CH+ / ▼CH-**. The video files should be reproduced from the "Movie" menu.

  Press **OK** to accept the file and **EXIT** to go up one level in the directory.
- To reproduce a file, select it and press button ▶ (TV/RADIO) or button **OK**.
- During the reproduction of a video, the button **LIST** ▶▶ allows you to fast forward the picture, while the button **ALT** ◀◀ allows fast picture rewind, the button ▶I skips to the next track, the button I◀ skips back to the previous track, the button **PAUSE** ❙❙ pauses the image and the **REPEAT** key repeats the file in different ways (one, dir., shuff., off).
- Press the **LANG** key to select the audio (if the file is .avi).
- Press the **GOTO** key to skip to a particular position in the time bar. In the popup window you must insert the value of the time you want to move to and press **OK**. This value must be included within the total time of the file that is being played.
- To stop playing the video at any moment you can press the buttons **TEXT** ■ or **EXIT**.

***Note**: Depending on the type of compression used, not all files in AVI and DivX format can be played.*

14.- Music

This menu enables you to listen to audio files in MP3 format from a USB memory stick, an SD/MMC card reader or an MP3 reader.

- Select the parameter "Music" by using the buttons **▲CH+ / ▼CH-** and press **OK** to confirm.
- Select the directory in which the audio file is located by pressing the buttons **▲CH+ / ▼CH-**. The audio files should be reproduced from the "Music" menu.

  Press **OK** to accept the file, and **EXIT** to move upward one level in the directory.
- To play a file, select it and then press button ▶ (TV/RADIO) or button **OK**.
- During the reproduction of a track, the button **LIST** ▶▶ will enable you to fast forward the track, button **ALT** ◀◀ will enable the rapid rewind of the track, the button ▶I skips forward one track, the button I◀ skips back one track, button **PAUSE** ❙❙ halts play and the **REPEAT** key repeats the file in different ways (one, dir., shuff., off).
- To stop reproduction at any time, simply press the **TEXT** ■ or **EXIT** buttons.

Music
/sda1/MUSICA/MANA-A~1.COM
0001 01 Mana - Manda Una Señal - www.t~.mp3
0002 02 Mana - Labios Compartidos - ww~.mp3
0003 03 Mana - Ojala Pudiera Borrarte - ~.mp3
0004 04 Mana - Arrancame El Corazon - ~.mp3
0005 05 Mana - Tengo Muchas Alas - ww~.mp3
0006 06 Mana - Dime Luna - www.torrent~.mp3
0007 07 Mana - Bendita Luz - www.torren~.mp3
0008 08 Mana - Tu Me Salvastes - www.t~.mp3

ENGLISH

Televes

15.- Photos

This menu enables you to play video files in JPEG and BMP format from a USB memory stick or an SD/MMC card reader.

- Select the parameter "Photos" using the buttons **▲CH+ / ▼CH-** and press **OK** to confirm.
- Select the directory in which the video files are located, for this purpose using the buttons **▲CH+ / ▼CH-**. The video files should be reproduced from the "Photos" menu.

  Press **OK** to accept the file, and **EXIT** to go up one of the levels in the directory.
- In order to sequentially reproduce the files, press the button ▶ (TV/RADIO) or the **OK** button.
- During image reproduction, the button ⏭ will skip to the following image, button ⏮ skips to the previous image, buttons **▲CH+ / ▼CH-** reverse the image horizontally and vertically, and buttons ◀ / ▶ rotate the image by 90º.
- To stop reproduction at any time, press the **TEXT** ■ or **EXIT** buttons.

16.- Games

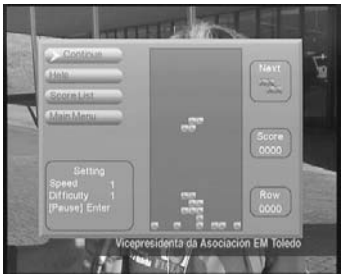
On this menu, you can choose among one of the three games available on the Receiver, namely:

- Box Man
- Tetris
- Hit Rat

- Select one of the available games by using the buttons **▲CH+ / ▼CH-** and press **OK** to confirm.

- To play, follow the instructions appearing on screen.

- To leave the game at any time, press button **OK** to stop the game, select the option "*Exit Game*" and press **OK** again.



17.- Disk Manager

This menu allows you to control the information available in the disk or pen drive (memory stick).

- Select the "Disk manager" option on the main Menu and press **OK**. Then, a list with the files saved in the external disk will appear. If there is not any file, the message "without file" will appear.
- Press the **green** key (▶) to select the operation you want to do between:

  Play: plays the selected file,

  Delete One: deletes the selected file,

  Delete All: deletes all files from the list or

  Rename: allows to rename the file using the popup keyboard.
- Select the file using the **▲CH+ / ▼CH-** keys and press the **OK** key to run the selected option.

- Press the **EXIT** key to exit this menu.

***Note**: this function will only affect video files.*

18.- Partition-Format

In this menu you can format the disk or external disk to enable them to store information.

- Select the "Partition-Format" option in the main menu and press the **OK** key.
- Select the disk you want to format using the **▲CH+ / ▼CH-** keys and press **OK** to confirm.
- A popup window will ask you to confirm (YES or NO) if you want to format the disk.

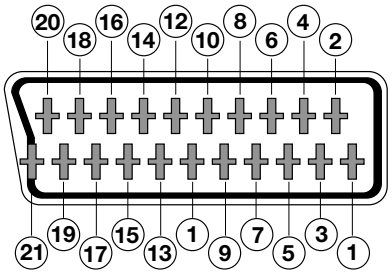
***Note**: All data available in the external disk will be deleted when you do this function.*

ENGLISH

Connector Description

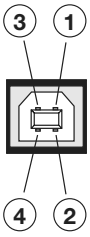
SCART

PIN	TV
1	Audio outlet (R)
2	N/A
3	Audio outlet (L)
4	Grounding audio
5	Grounding blue
6	N/A
7	Outlet blue
8	Switch voltage
9	Grounding green
10	N/A
11	Outlet green
12	N/A
13	Grounding red
14	"Fast Blanking" grounding
15	Outlet red
16	"Fast Blanking" outlet
17	Grounding Video
18	Grounding Video
19	Outlet Video
20	N/A
21	Grounding



DC INPUT

PIN	Description
1	+3,3 V⎓ (1200 mA)
2	+5 V⎓ (600 mA)
3	Grounding (GND)
4	+12 V⎓ (300 mA)



Glossary of Terminology

The following is a short and simple explanation of the meanings of some terms and acronyms used throughout this User's Manual.

- **DVB :** Digital Video Broadcasting.
  A consortium formed by different international organizations and firms whose purpose is to set worldwide standards for the development of digital television.

- **EPG :** Electronic Programme Guide
  A guide that provides the user with a listing of events that will be broadcast in each of the programs, the time when they will be aired and the description of their content.

- **Fast Blanking :** A signal sent by SCART, controlling the RGB status of the TV set.

- **FTA :** Free To Air
  Open (non-coded) broadcast programs.

- **Letterbox :** One of the display modes for 4:3 ratio TV sets of programs broadcast in 16:9 ratio.
  Two black bands appear on the top and bottom of the screen to create a window with the ratio that is needed.

- **LCN :** Automatic Channel Ordering
  As long as this function is enabled, the Adaptor orders the channels found according to the operator's pre-determined listing.

- **MPEG 2 :** Family of audio-visual compression standards used by the DVB.

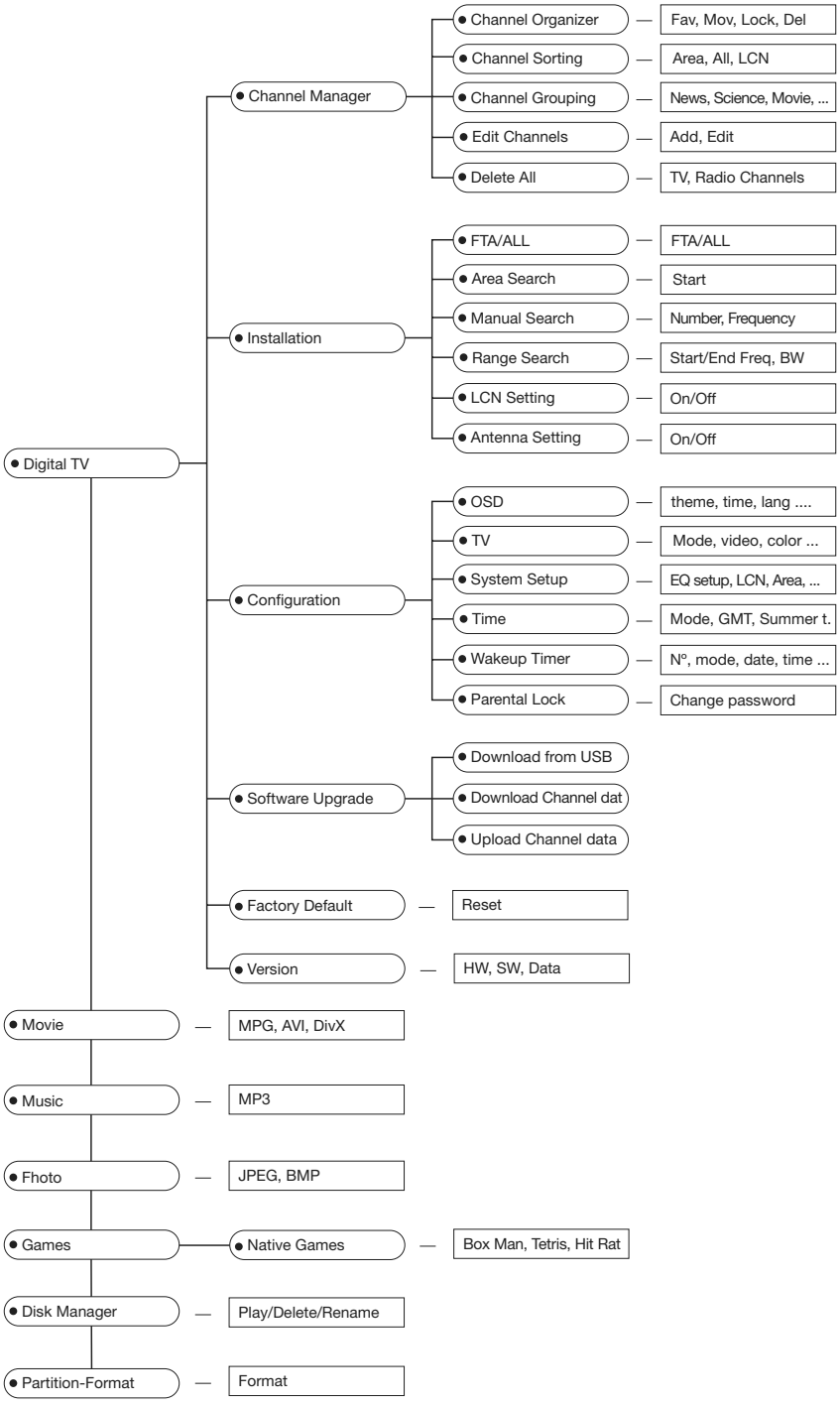
- **OSD :** On Screen Display.
  A system of onscreen menus.

- **VCR :** Video Casette Recorder.
  A home video machine.

- **COFDM :** Coded Orthogonal Frequency Division Multiplexing
  COFDM modulation technology enables more reliable and robust digital transmission than its analog predecessors, since stable transmissions are possible in urban contexts even when no direct line of vision exists between aerials. Its basic function is the division of the digital data frame to be transmitted among multiple narrow carriers that occupy the whole available band width, and the increased length of transmission time for each symbol, including a safety interval.

- **USB :** Universal Serial Bus
  Standard for the connection of peripheral.

Menu Structure



Technical Features

DVB-T Receiver:

Input frequencies	170...230 MHz and 470...862MHz
Input Connector	CEI
Impedance	75 Ohms
Output Connector	IEC
Video System	PAL B/G, SECAM, NTSC
Filter	6, 7, 8 MHz
Demodulation	CODFM 2k/8k
Aerial feed	5V/100mA
De-Multiplexing	MPEG II, ISO/IEC 13818-1

Video Decoding:

Video compression	MPEG-2 Compatible MP@ML (Main profile @ main level)
Video Standard	PAL / NTSC
Image	720 pixels x 576 lines / 724 pixels x 480 lines
Format	4:3 Letterbox / 4:3 Pan Scan / 16:9 / Auto

Audio Decoding:

Compression	MPEG-2 Layer I & II
Audio Mode	Dual (main/sub), Stereo
Frequency sample	32KHz, 44.1KHz, 48KHz

Audio Parameters:

Analog Output:	
Output level	0.5 rms (nominal)
Output impedance	600 Ohms
THD	>60dB (1KHz)

Video Parameters:

Output	
CVBS Output level	1 Vpp / 75 Ohms
RED Output level	0.7 Vpp / 75 Ohms
GREEN Output leve	0.7 Vpp / 75 Ohms
BLUE Output level:	0.7 Vpp / 75 Ohms

Tele-text:

Tele-text	Standard ETS 300 472

SCART Connector:

Output:	CVBS and RGB

USB Interface:

Type	Mini USB
USB port	1.1/2.0

Mains:

Mains power:	100 - 250V~ 50/60 HZ
DVB-T powering:	12V (300mA), 5V (600mA), 3,3V (1200mA)
USB powering:	5V (1A)
Power consumed:	< 8 W

General:

EPG	Current events, future events and those prior to the selected program
Timer	8 events, up to one year ahead of time
OSD Language	English, French, German, Italian, Spanish, Swedish, Portuguese, Finnish, Dutch, Turkish, Czech, Greek and Danish
Temperature	+15 ºC....+35 ºC
Humidity	<80%
Dimensions (L x W x H):	100mm x 69mm x 23,5mm
Weight:	200 grs.

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Televés S.A. offers a two year guarantee, beginning from the date of purchase for countries in the EU. For countries that are not part of the EU, the legal guarantee that is in force at the time of purchase is applied. Keep the purchase invoice to determine this date.

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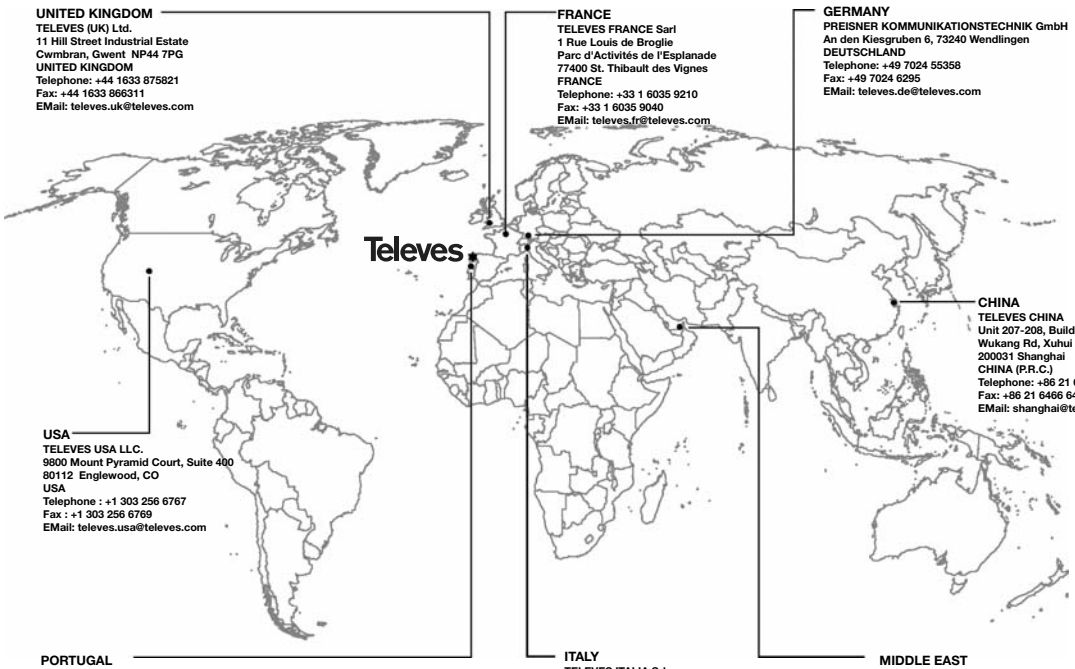
EN 55013:2001 + A1:2003 + A2:2006: *Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement*
EN 55020:2002 + A1:2003 + A2:2005: *Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement*

Santiago de Compostela, 28 de Julio de 2009

CE

José L. Fernández Carnero
Technical Director

RED COMERCIAL - COMMERCIAL NETWORK



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